

ABSTRACT OF THE DISCLOSURE

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In an arrangement for testing an integrated circuit comprising a combinational logic system [(1)], which arrangement performs a test of the behavior of the combinational logic system [(1)] in comparison with test software which emulates the nominal behavior of the integrated circuit, the signal edge behavior of the combination logic system [(1)] is checked in that that the test software comprises two identical software models [(11, 16)] of the combinational logic system [(1)] to be tested, in which a test sample is applied for test purposes to a first [(11)] of these software models and whose output signals are coupled to a second [(16)] of these software models, in that the integrated circuit comprises a test circuit [(2, 3, 4, 5)] which, in a test mode, applies a first test sample in a first test clock cycle to the input of the combinational logic system of the integrated circuit and takes over the output signal in a buffer memory [(2, 3, 4, 5)] and which feeds back this output signal as a second test sample in a second test clock cycle to the input of the combinational logic system [(1)] and again takes over the output signal of the combinational logic system [(1)] in the buffer memory [(2, 3, 4, 5)], and in that at the end of the second test clock cycle, the arrangement compares the results of the combinational logic system [(1)] of the integrated circuit in the buffer memory [(2, 3, 4, 5)] with the results of the second software model [(16)].

[Fig. 2]